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Full translation.

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duction, Physical properties, Chromium compounds,
Oxides, Ores.

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The temperature dependence of such elastic constants as
the elastic and torsional moduli has been studied for
fireclay glass-tank bricks of different contents of alu-
mina. The measurements obtained by torsional, bend-
ing, and dynamic methods and tests are compared with
the aim of establishing whether the size of the test piece
affects the results of measurement and what effect the
amount of load has on the course of the torsional modu-
lus as a function of the temperature. Even at room tem-
perature the static method of measurement produces
(Materials--Refractories, TT, v. 5, no. 10) (over)

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II. Wohleben, K.

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DESCRIPTORS: *Ceramic materials, *Glass, *Mullite,
Determination, Chemical analysis.

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clay, firebrick, stoneware and porcelain is investi-
gated chemically and by aid of X-rays, as a function
of the time. Mullite is attacked by HF of various con-
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DESCRIPTORS: *Refractory materials, *Ceramic
materials, *Glass, Rock, *Iron industry, Petrology,
Classification, Standards, Geography, Geology, Bricks,
Industrial procurement.

(Materials, TT, v. 9, no. 6)

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DESCRIPTORS: *Electrochemistry, *Complex com-
pounds, *Phenols, *Naphthalenes, Hydroxides,
*Pyrogallol, *Germanium compounds, Dioxides, Acids,
Polarographic analysis, Electrolytic titration, Spec-
trographic analysis.

Analogous to pyrocatecholgermanic acid complex ger-
manic acids of pyrogallol and 2,3 dihydroxynaphthalene-
6-sulfonic acid yield relatively positive reduction waves
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(pH below 4.0). The dependence of these waves on ionic
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Pyrocatecholgermanic acid gives a typical polaro-
graphic wave in acid solution (pH 4.0) at the dropping
mercury electrode which at pH 1.5 lies at -0.65 V vs.
the sat. calomel electrode. The wave height is pro-
portional to concentration and is therefore suitable both
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